ELSEVIER

Carbohydrate Research 286 (1996) C3–C5

CARBOHYDRATE RESEARCH

Subject index

Ab initio calculations
Binding properties of carbohydrate sulfamates based on ab initio 6-31 + G** calculations on *N*-methyl and *N*-ethyl sulfamate anions 17

1-Alkoxy-2-haloethyl glucopyranosides
Mixed-acetal glucopyranosides of 2-bromo- and 2-iodo-acetaldehyde by mild alkylation of lactol groups. Irreversible cross inhibition using a pair of glycosidases 189

Amadori compound
Identification of per-*O*-(trimethylsilyl) derivatives of aldoses generated from thermal decomposition of *N*-(1-deoxy-D-fructopyranos-1-yl)proline: reversibility of the Amadori rearrangement 179

Amidines
Preparation of amidine derivatives from 1-cyano-D-galactal 167

1,2-Anhydro-3,5-di-*O*-benzyl-β-D-arabinofuranose
Synthesis of 1,2-anhydro-3,5,6-tri-*O*-benzyl-α-L-gulofuranose and 1,2-anhydro-3,5-di-*O*-benzyl-β-D-arabinofuranose 161

1,2-Anhydro-3,5,6-tri-*O*-benzyl-α-L-gulofuranose
Synthesis of 1,2-anhydro-3,5,6-tri-*O*-benzyl-α-L-gulofuranose and 1,2-anhydro-3,5-di-*O*-benzyl-β-D-arabinofuranose 161

Antimetastasis
A practical synthesis from siastatin B of (3*S*,4*S*,5*R*,6*R*)-4,5-dihydroxy-6-(trifluoroacetamido)piperidine-3-carboxylic acid having antimetastatic activity in mice 173

Antioxidants
Synthesis of novel vitamin C phosphodiesters: Stability and antioxidant activity 123

Ascorbic acid phosphodiesters
Synthesis of novel vitamin C phosphodiesters: Stability and antioxidant activity 123

6-Azido-3-oxa-2,3,4,6-tetradeoxy-*glycero*-hexopyranose
Synthesis of kanamycin A analogs containing 6-amino-3-oxa-2,3,4,6-tetradeoxy-D- and -L-*glycero*-hexopyranose 107

Cation interactions
A detailed ^{1}H and ^{13}C NMR study of a repeating disaccharide of hyaluronan: the effect of sodium and calcium ions 151

Chemical shift temperature coefficients
Influence of intramolecular hydrogen-bonding on the conformation of 3-deoxy-3-thioureido sugars 55

^{13}C NMR
A multinuclear NMR spectroscopy study of the tungstate and molybdate complexes of D-fructose and L-sorbose 67

Complexes
NMR Study of uronic acids and their complexation with molybdenum(VI) and tungsten(VI) oxoions 1

Conformation
A detailed ^{1}H and ^{13}C NMR study of a repeating disaccharide of hyaluronan: the effect of sodium and calcium ions 151

Cross inhibition of glycosidases
Mixed-acetal glucopyranosides of 2-bromo- and 2-iodo-acetaldehyde by mild alkylation of lactol groups. Irreversible cross inhibition using a pair of glycosidases 189

Cyclomaltoheptaose (β-cyclodextrin)
Quantitative determination of native and methylated cyclodextrins by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry 41

Decomposition
Identification of per-*O*-(trimethylsilyl) derivatives of aldoses generated from thermal decomposition of *N*-(1-deoxy-D-fructopyranos-1-yl)proline: reversibility of the Amadori rearrangement 179

Deoxy
Recognition of β-D-Gal*p*-(1 → 3)-β-D-Glc-*p*NAc-OR acceptor analogues by the Lewis α-(1 → 3/4)-fucosyltransferase from human milk 87

Drug delivery systems
A novel approach to the synthesis of lipophilic thymidinemonophosphoglucopyranosides as drug delivery systems 77

Fructose
A multinuclear NMR spectroscopy study of the tungstate and molybdate complexes of D-fructose and L-sorbose 67
Fucosyltransferase
Recognition of β-D-Gal*p*-(1 → 3)-β-D-Glc-*p*NAc-OR acceptor analogues by the Lewis α-(1 → 3/4)-fucosyltransferase from human milk 87

Galactal derivatives
Preparation of amidine derivatives from 1-cyano-D-galactal 167
D-Glucopyranoside, 2-deoxy-2-sulfoamino-
Binding properties of carbohydrate sulfamates based on ab initio 6-31 + G** calculations on *N*-methyl and *N*-ethyl sulfamate anions 17
Glucopyranoside synthesis
Mixed-acetal glucopyranosides of 2-bromo- and 2-iodo-acetaldehyde by mild alkylation of lactol groups. Irreversible cross inhibition using a pair of glycosidases 189
Glucosiduronase inhibitor
A practical synthesis from siastatin B of (3*S*,4*S*,5*R*,6*R*)-4,5-dihydroxy-6-(trifluoroacetamido)piperidine-3-carboxylic acid having antimetastatic activity in mice 173
C-Glycosyl compounds
Preparation of amidine derivatives from 1-cyano-D-galactal 167

Heparin
Binding properties of carbohydrate sulfamates based on ab initio 6-31 + G** calculations on *N*-methyl and *N*-ethyl sulfamate anions 17
Heptakis(2,6-di-*O*-methyl)-β-cyclodextrin
Quantitative determination of native and methylated cyclodextrins by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry 41
Hexadecyl dinucleoside phosphates
A novel approach to the synthesis of lipophilic thymidinemonophosphoglucopyranosides as drug delivery systems 77
Hexadecyl nucleoside glucopyranoside phosphates
A novel approach to the synthesis of lipophilic thymidinemonophosphoglucopyranosides as drug delivery systems 77
Hyaluronan
A detailed ^{1}H and ^{13}C NMR study of a repeating disaccharide of hyaluronan: the effect of sodium and calcium ions 151

1-*N*-Imino sugar
A practical synthesis from siastatin B of (3*S*,4*S*,5*R*,6*R*)-4,5-dihydroxy-6-(trifluoroacetamido)piperidine-3-carboxylic acid having antimetastatic activity in mice 173
Intramolecular hydrogen-bonding
Influence of intramolecular hydrogen-bonding on the conformation of 3-deoxy-3-thioureido sugars 55

Kanamycin analog
Synthesis of kanamycin A analogs containing 6-amino-3-oxa-2,3,4,6-tetradeoxy-D- and -L-*glycero*-hexopyranose 107
Ketoses
A multinuclear NMR spectroscopy study of the tungstate and molybdate complexes of D-fructose and L-sorbose 67
Kinetics
Degradation of pectins in alkaline conditions: kinetics of demethylation 139

Lipophilic phosphotriesters
A novel approach to the synthesis of lipophilic thymidinemonophosphoglucopyranosides as drug delivery systems 77

MALDI-TOF-MS
Quantitative determination of native and methylated cyclodextrins by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry 41
Maltohexaose
Quantitative determination of native and methylated cyclodextrins by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry 41
Me_4Si derivatives
Identification of per-*O*-(trimethylsilyl) derivatives of aldoses generated from thermal decomposition of *N*-(1-deoxy-D-fructopyranos-1-yl) proline: reversibility of the Amadori rearrangement 179
Mixed-acetal glucopyranosides
Mixed-acetal glucopyranosides of 2-bromo- and 2-iodo-acetaldehyde by mild alkylation of lactol groups. Irreversible cross inhibition using a pair of glycosidases 189
Molybdate complexes
A multinuclear NMR spectroscopy study of the tungstate and molybdate complexes of D-fructose and L-sorbose 67
Molybdenum
NMR Study of uronic acids and their complexation with molybdenum(VI) and tungsten(VI) oxoions 1

NMR
A detailed ^{1}H and ^{13}C NMR study of a repeating disaccharide of hyaluronan: the effect of sodium and calcium ions 151

Oligosaccharide analogue
Recognition of β-D-Gal *p*-(1 → 3)-β-D-Glc-*p*NAc-OR acceptor analogues by the Lewis α-(1 → 3/4)-fucosyltransferase from human milk 87

Pectin
Degradation of pectins in alkaline conditions: kinetics of demethylation 139
pH
Degradation of pectins in alkaline conditions: kinetics of demethylation 139
Pseudo-γ-turn
Influence of intramolecular hydrogen-bonding on the conformation of 3-deoxy-3-thioureido sugars 55

Quantification of cyclodextrins
Quantitative determination of native and methylated cyclodextrins by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry 41

Reversibility of Amadori rearrangement
Identification of per-*O*-(trimethylsilyl) derivatives of aldoses generated from thermal decomposition of *N*-(1-deoxy-D-fructopyranos-1-yl) proline: reversibility of the Amadori rearrangement 179
Rotational isomerism
Influence of intramolecular hydrogen-bonding on the conformation of 3-deoxy-3-thioureido sugars 55

Saponification
Degradation of pectins in alkaline conditions: kinetics of demethylation 139
Siastatin B
A practical synthesis from siastatin B of (3*S*,4*S*,5*R*,6*R*)-4,5-dihydroxy-6-(trifluoroacetamido)piperidine-3-carboxylic acid having antimetastatic activity in mice 173
Sorbose
A multinuclear NMR spectroscopy study of the tungstate and molybdate complexes of D-fructose and L-sorbose 67
Substrate recognition
Recognition of β-D-Gal *p*-(1 → 3)-β-D-Glc-*p*NAc-OR acceptor analogues by the Lewis α-(1 → 3/4)-fucosyltransferase from human milk 87
Sugar thioureas
Influence of intramolecular hydrogen-bonding on the conformation of 3-deoxy-3-thioureido sugars 55
Sulfamate, *N*-ethyl-
Binding properties of carbohydrate sulfamates based on ab initio 6-31 + G** calculations on *N*-methyl and *N*-ethyl sulfamate anions 17
Sulfamate, *N*-methyl-
Binding properties of carbohydrate sulfamates based on ab initio 6-31 + G** calculations on *N*-methyl and *N*-ethyl sulfamate anions 17

Tungstate complexes
A multinuclear NMR spectroscopy study of the tungstate and molybdate complexes of D-fructose and L-sorbose 67
Tungsten
NMR Study of uronic acids and their complexation with molybdenum(VI) and tungsten(VI) oxoions 1

Uronic acids
NMR Study of uronic acids and their complexation with molybdenum(VI) and tungsten(VI) oxoions 1

Vitamin C derivatives
Synthesis of novel vitamin C phosphodiesters: Stability and antioxidant activity 123

^{183}W NMR
A multinuclear NMR spectroscopy study of the tungstate and molybdate complexes of D-fructose and L-sorbose 67